

polypeptide has at least 90% amino acid sequence identity.

3. (Amended) The Apo-2DcR polypeptide of claim 2 wherein said Apo-2DcR polypeptide has at least 95% amino acid sequence identity.

4. (Amended) Isolated native sequence Apo-2DcR polypeptide comprising amino acid residues 1 to 259 of SEQ ID NO:1.

5. (Amended) Isolated extracellular domain sequence of Apo-2DcR polypeptide comprising amino acid residues 1 to 161 of SEQ ID NO:1.

6. (Amended) The extracellular domain sequence of claim 5 comprising amino acid residues 1 to 236 of SEQ ID NO:1.

7. (Amended) Isolated native sequence Apo-2DcR polypeptide comprising amino acid residues 1 to 299 of SEQ ID NO:3.

8. A chimeric molecule comprising the Apo-2DcR polypeptide of claim 1 or the extracellular domain sequence of claim 5 fused to a heterologous amino acid sequence.

9. The chimeric molecule of claim 8 wherein said heterologous amino acid sequence is an epitope tag sequence.

10. The chimeric molecule of claim 8 wherein said heterologous amino acid sequence is an immunoglobulin sequence.

11. The chimeric molecule of claim 10 wherein said immunoglobulin sequence is an IgG.

15. Isolated nucleic acid encoding the Apo-2DcR polypeptide of claim 1 or the extracellular domain sequence of claim 5.

16. (Amended) The nucleic acid of claim 15 wherein said nucleic acid encodes native sequence Apo-2DcR polypeptide comprising amino acid

residues 1 to 259 of SEQ ID NO:1.

17. (Amended) The nucleic acid of claim 15 comprising nucleotides 193 to 969 of SEQ ID NO:2.

18. A vector comprising the nucleic acid of claim 15.

19. (Amended) A vector comprising the nucleic acid of claim 15 operably linked to one or more control sequences recognized by a host cell transformed with the vector.

20. A host cell comprising the vector of claim 18.

21. (Amended) A process of using a nucleic acid molecule encoding Apo-2DcR polypeptide to effect production of Apo-2DcR polypeptide comprising culturing the host cell of claim 20 under conditions such that the Apo-2DcR polypeptide is produced.

30. (Amended) The host cell of claim 20 which is an E. coli cell.

31. (Amended) The host cell of claim 20 which is a Chinese Hamster ovary (CHO) cell.

32. (Amended) The host cell of claim 20 which is a yeast cell.